Capacity building approaches to risk assessments

Dr. Martine Woolf, Geoscience Australia
Capacity building approaches to risk assessment
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Capacity Building
A project of Quezon City Government, PHIVOLCS-DOST, Geoscience Australia, Australian Aid

West Valley Fault Investigation

SCIENTISTS AT WORK
DO NOT DELAY
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DO NOT DELAY
Seismic hazard assessment in PNG

Capacity building approaches to risk assessment
Conference: PNG lacks hazard map
Indonesia - tsunami

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Example: Indonesia Tsunami

In the event of a tsunami, how many buildings might be inundated?

<table>
<thead>
<tr>
<th>Building type</th>
<th>Dry Zone</th>
<th>Low Hazard Zone</th>
<th>Medium Hazard Zone</th>
<th>High Hazard Zone</th>
<th>Very High Hazard Zone</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Government</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Place of worship</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Residential</td>
<td>4,263</td>
<td>250</td>
<td>3,576</td>
<td>1,726</td>
<td>0</td>
<td>9,817</td>
</tr>
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<td>Total</td>
<td>4,263</td>
<td>250</td>
<td>3,576</td>
<td>1,726</td>
<td>0</td>
<td>9,817</td>
</tr>
</tbody>
</table>

Action checklist:

- Which structures have warning capacity (e.g., sirens, speakers, etc.)?
- Are the water and electricity services still operating?
- Are the health centres still open?
- Are the other public services accessible?
- Which buildings will be evacuation centres?
- Where will we locate the operations centre?
- Where will we locate the warehouse and/or distribution centres?
- Are the schools and hospitals still active?
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Example Indonesia Tsunami
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EXERCISE PLAN

Ambon DiReEx 2016: Tabletop Exercise on the EAS Rapid Disaster Response Toolkit

namely:


2) The estimation of the affected houses reaching about 12,149 houses badly damaged/destroyed, 12,575 damaged and 5,433 slightly damaged.
Seismic Hazard Analysis In Indonesia
Seismic Hazard Analysis In Indonesia
Strengthen governance
A quick fix?
Better understanding risk
Re-use, redo and update
Strengthen governance
Thank you!

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